

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT	((compress\$) same (transmi\$ with storage with rate with (higher or greater)))	14	<u>L1</u>

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L1: Entry 4 of 14

File: USPT

Feb 15, 2000

DOCUMENT-IDENTIFIER: US 6026217 A

TITLE: Method and apparatus for eliminating the transpose buffer during a decomposed forward or inverse 2-dimensional discrete cosine transform through operand decomposition storage and retrieval

BSPR:

Most modern video codecs consist of a sequence of hardware components each of which performs some function involved in either compressing or in decompressing the video image. A codec designer chooses specific components based on the design goals of the specific system. By choosing the appropriate components the codec design can be optimized for various factors, such as speed of compression to meet transmission rate goals, reliability of transmission to meet image quality goals, improved color reproduction, better edge definition, higher compression ratios to achieve lower storage space requirements. Thus, there exists a problem in obtaining high quality video images that meet or exceed the industry standards while still achieving sufficient compression to permit cost effective and efficient transmission over the available transmission lines, or storage in the available storage media.

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L1: Entry 7 of 14

File: USPT

Sep 15, 1998

DOCUMENT-IDENTIFIER: US 5808660 A

TITLE: Video on-demand system with a plurality of reception apparatus connected in a daisy chain connection

BSPR:

In order to attain the object described above, according to an aspect of the present invention, there is provided a video on-demand system wherein a plurality of video programs are selectively supplied and displayed in response to requests of viewers in a physically limited space, which comprises a delivery apparatus for selectively reading out and delivering, in response to request signals, video information of the video programs each in the form of compressed codes stored in storage means, a communication line including a set of lines including a data line for serially transmitting the video information at a data rate equal to or higher than 100 MBps, a strobe line for transmitting a strobe signal for regeneration of a clock signal to be used to transmit the video information and a power supply line for supplying dc power, a plurality of reception apparatus connected in a daisy chain connection to the delivery apparatus by the communication line for outputting the request signals and selectively receiving the video information, a plurality of reception apparatus installation means arranged in a predetermined form and having the plurality of reception apparatus installed individually therein for allowing the viewers to enjoy the video programs selected by the viewers, and a line laying means provided between the delivery apparatus and the plurality of reception apparatus and connecting the plurality of reception apparatus in a daisy chain connection to the transmission apparatus.

BSPR:

According to another aspect of the present invention, there is provided a video on-demand system wherein a plurality of video programs are selectively supplied and displayed in response to requests of viewers in a physically limited space, which comprises a delivery apparatus for selectively reading out and delivering, in response to request signals, video information of the video programs each in the form of compressed codes stored in storage means via an asynchronous or synchronous serial interface, a converter for converting the video information delivered from the transmission apparatus into a set of the video information and a strobe signal for regeneration of a clock signal of the video information, a communication line including a set of lines including a data line for serially transmitting the video information obtained by the conversion of the converter at a data rate equal to or higher than 100 MBps, a strobe line for transmitting a strobe signal for regeneration of a clock signal

to be used to transmit the video information and a power supply line for supplying dc power, a plurality of reception apparatus connected in a daisy chain connection to the delivery apparatus by the communication line for outputting the request signals and selectively receiving the video information, a plurality of reception apparatus installation means arranged in a predetermined form and having the plurality of reception apparatus installed individually therein for allowing the viewers to enjoy the video programs selected by the viewers, and a line laying means provided between the delivery apparatus and the plurality of reception apparatus and connecting the plurality of reception apparatus in a daisy chain connection to the transmission apparatus.

BSPR:

According to a further aspect of the present invention, there is provided a video on-demand system wherein a plurality of video programs are selectively supplied and displayed in response to requests of viewers in a physically limited space, which comprises a plurality of delivery apparatus for selectively reading out and delivering, in response to request signals, video information of the video programs each in the form of compressed codes stored in storage means, an exchange for selectively connecting the plurality of delivery apparatus and a first communication line, a converter for converting the video information supplied thereto from the exchange via the first line into a set of the video information and a strobe signal for regeneration of a clock signal of the video information, a second communication line including a set of lines including a data line for serially transmitting the video information obtained by the conversion of the converter at a data rate equal to or higher than 100 MBps, a strobe line for transmitting a strobe signal for regeneration of a clock signal to be used to transmit the video information and a power supply line for supplying dc power, a plurality of reception apparatus connected in a daisy chain connection to the delivery apparatus by the second communication line for outputting the request signals and selectively receiving the video information, a plurality of reception apparatus installation means arranged in a predetermined form and having the plurality of reception apparatus installed individually therein for allowing the viewers to enjoy the video programs selected by the viewers, and a line laying means provided between the delivery apparatus and the plurality of reception apparatus and connecting the plurality of reception apparatus in a daisy chain connection to the transmission apparatus.

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L1: Entry 8 of 14

File: USPT

May 13, 1997

DOCUMENT-IDENTIFIER: US 5629732 A

TITLE: Viewer controllable on-demand multimedia service

DEPR:

In this particular illustrative embodiment, server 11 is also connected through standard interface 18 to eight storage devices 2 including devices 2a through 2f. Each storage device is of the type of a Silicon Graphics.RTM. 2.0 Gbytes disk drive manufactured by Silicon Graphics, Inc. The device is capable of storing compressed multimedia data representative of eight to ten movies. Depending on the popularity of a particular movie, two or more of storage devices 2 may contain the same movie to support a large audience. In order to ensure data availability during transmission, each storage device allows for data access at a throughput speed higher than the transmission rate. In this particular illustrative embodiment, the throughput speed and the transmission rate are about 150 Mb/s and 100 Mb/s, respectively.

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L1: Entry 11 of 14

File: USPT

Nov 16, 1993

DOCUMENT-IDENTIFIER: US 5262875 A

TITLE: Audio/video file server including decompression/playback means

DEPR:

Compressed digital audio/video program information is received by controller 110 at digital input 170. Controller 110 controls, communicates with, and receives data from storage unit 15 of FIG. 1. Controller 110 may comprise, for example, any of a number of commercially available SCSI controller chips, to receive digital audio/video program information at a high sustained data transfer rate from storage unit 15 of FIG. 1. This information is transferred to a buffer 120 that may comprise commercially available DRAM, for storage. As explained above, storage of information in buffer 120 is necessary to accommodate the difference in data transmission speeds between storage unit 15, which preferably operates at a data transfer rate higher than the required real-time digital bit rate and the real-time digital bit rate of the selected one of playback units 41, 42 . . . 4n. In this manner, buffer 120 is filled at the higher data transfer rate under software control by CPU 140 in cooperation with controller 110. Alternatively, the data transfer rate from storage unit 15 of FIG. 1 and the playback rate of a selected one of the playback units 41, 42 . . . 4n may be the same, in which case buffer 120 may not be required. In the event buffer 120 is utilized, real-time digital playback may be invoked by CPU 10 at any time following storage of a minimum amount of program information in buffer 120. The playback operation involves CPU control of decompressor 150, which decompresses the stored digital audio/video program information using the same algorithm chosen to initially compress the audio/video program information. As stated above, this algorithm may be selectable using programmable decompression chips such as the Vision Processor marketed by Integrated Information Technology, Inc. of Santa Clara, Calif.